

GW 3

File No. ....

DUPLICATE

T 20 N., R 8 E.

County Chouteau

**RECEIVED**  
JAN 7 1964

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 1st, 1949

Owner Harris Reynolds

Address Highwood, Montana

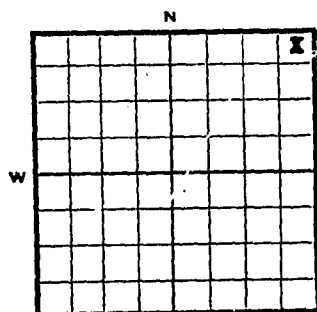
Contractor (if any) Self

Address of Contractor .....

Date Started June 1, 1949 Date Completed June 30, 1949

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Bulldozed to depth of 10 feet.

Water stored by means of reservoir.



NE 1/4 NE 1/4 Sec. 31 T. 20N R. 8 E

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

one miners inch (estimated)

Harris Reynolds

Signature of Owner .....

Date December 27, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



## GROUNDWATER INDEX

Page 1 of 1

County Chouteau Twp. 20N Rge. 9E

[illegible]

File No. ....

DUPLICATE

T. 20 N. R. 9. E.

County Chouteau

RECEIVED

JAN 7 1964

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

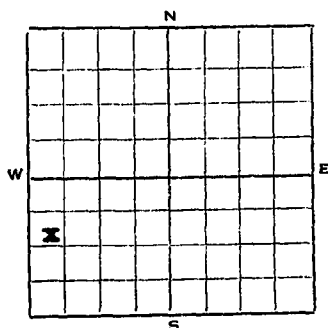
STATE ENGINEER

# DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Jack E. Bateman, of Fort Benton,  
(Name of Appropriator) (Address) (Town)

County of Chouteau State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SW 1/4 Sec. 2 T. 20 N. R. 9 E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Stockwater, Household, Domestic

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1933- Continuous use since development

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof not so used

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal catch basin pipe and tank

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1933

8. The depth of water table 1 foot

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 3 ft. wooden box, 1 1/2 inch pipe

10. The estimated amount of groundwater withdrawn each year 500,000 gallons

11. The log of formations encountered in the drilling of each well if available unavailable

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record This is a developed spring. Flow was collected and utilized

Signature of Owner Jack E. Bateman

Date 30 December 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

26512

(Town)

(County)

(Name of Corporation)

Comes the State of Montana, County of Chouteau, to all to whom these presents shall come, that the following is a true and correct copy of the plat of the same, as approved by the Board of Supervisors of the County of Chouteau, Montana, on the 1st day of December, 1963, as follows:

1. The land is situated in the Township of \_\_\_\_\_, Range of \_\_\_\_\_, and is bounded by \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

2. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

3. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

4. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

5. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

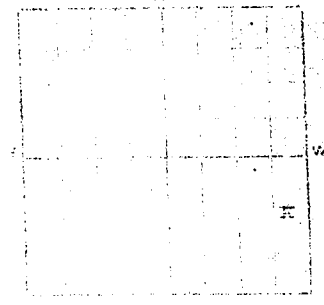
6. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

7. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

8. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

9. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

10. The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.



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The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

The land is situated in the \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

#347220  
STATE OF MONTANA, 7  
COUNTY OF CHOUTEAU, 12  
Filed DEC 31 1963 19  
at 4:30 o'clock 43  
County Clerk  
By \_\_\_\_\_  
Per S. J. J. Paid

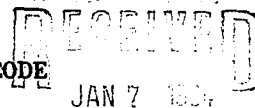
File No. ....

DUPLICATE

T. 20N. R. 9E

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

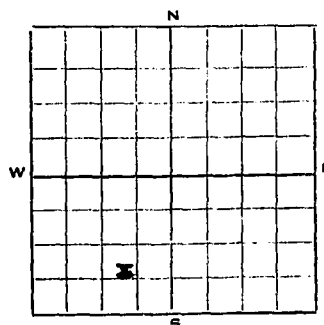


DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. Jack E. Bateman, of Fort Benton  
(Name of Appropriator) (Address) (Town)

County of Chouteau State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 2 T20N R. 9E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based stockwater, household, domestic
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1917, continually thereafter
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 gallons per minute
5. If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereof not so used
6. The means of withdrawing such water from the ground and the location of the well or other means of withdrawal catch basin, pipe and tank

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1917
8. The depth of water table 1 foot
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 3 ft. wooden box, 1 1/2 inch pipe.
10. The estimated amount of groundwater withdrawn each year 500,000 gallons
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. This is a developed spring. Flow was collected and utilized.

Signature of Owner John E. Bateman

Date 30 December 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

Name of Applicant (Printed) \_\_\_\_\_  
 (Typed) \_\_\_\_\_  
 (Printed) \_\_\_\_\_

County of \_\_\_\_\_ State of \_\_\_\_\_  
 have appointed \_\_\_\_\_ as follows:

\_\_\_\_\_ based on which is based on \_\_\_\_\_

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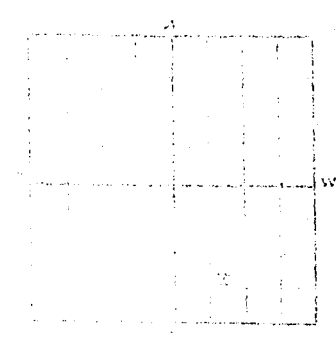
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A 347221  
 STATE OF MONTANA  
 COUNTY OF CHOTEAU  
 DEC 31 1900  
 Filed \_\_\_\_\_  
 at \_\_\_\_\_ o'clock \_\_\_\_\_  
 \_\_\_\_\_ County Clerk  
 By \_\_\_\_\_  
 \$ 2.00 Fee

GW 3

File No.....

DUPLICATE

T. 20 R. 9 E

County Chautauq

RECEIVED  
JAN 7 1964

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

STATE ENGINEER

## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner James O Bishop

Address Shanklin Mont

Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed 1958

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....

Bored in Spring with Pipe to Water Tank

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use .....

Continuous

50% more water with development.

Signature of Owner James O Bishop

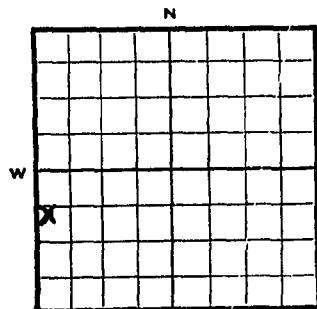
Date 12/27/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

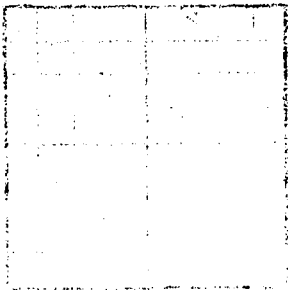
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



Sw of Sec 4  
1/4 Sec. 4 T. 20 R. 9

Indicate point of appropriation and place of use, if possible.





OFFICE OF THE COUNTY CLERK  
COUNTY OF LOS ANGELES

NOTICE OF SALE  
The undersigned, County Clerk of the County of Los Angeles, do hereby give notice that the following property of the County of Los Angeles, to-wit:

316779

DEC 27 1963

3:30 o'clock P. M.

*George A. ...*  
County Clerk

By \_\_\_\_\_ Deputy

For \$2.00 Paid

GW 3

File No. ....

DUPLICATE

T. 20 R. 9

County Montana

RECEIVED  
JAN 7 1964

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER STATE ENGINEER

## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner James O Bishop

Address Shenandoah, Mont.

Contractor (if any) .....

Address of Contractor .....

Date Started ..... Date Completed 1958

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....

Bored in spring with pipe to water tank

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use .....

Continuous

Increase of water 75%

Signature of Owner James O Bishop

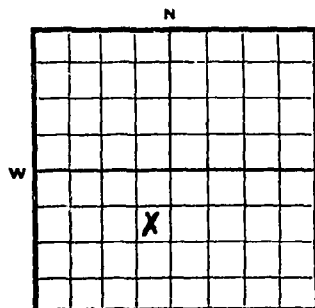
Date 12/27/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



NE 1/4 Sec. 5 T. 20 R. 9  
Indicate point of appropriation and place of use, if possible.

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin lines. There are also thicker lines forming a larger grid, dividing the page into four quadrants. The paper appears slightly aged or off-white.

only 100 ft. from the shore, the  
projected zone of protection

1. The first step in the process of identifying a problem is to recognize that a problem exists. This is often done by comparing current performance with a desired state or goal. If there is a significant difference, a problem is identified.

[illegible]

346781

STATE OF MONTANA,  
COUNTY OF CHouteau. }

DEC 27 1963

3:30

...o'clock, P.

o'clock / 10.  
George W. Henry  
Cousin

County Clerk

By \_\_\_\_\_

2.00 2.00

GW 3

File No. ....

DUPLICATE

T. 20 R. 9

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 7 1964

STATE ENGINEER

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater .....

Owner James D Bishop

Address Shonover

Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed 1956

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable.....

Boiled in Spring with Pipe to Water Tank

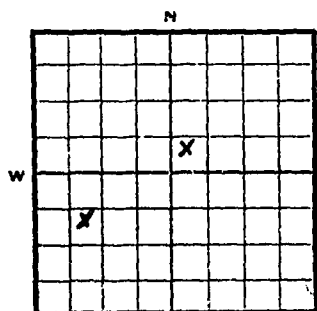
Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use .....

Cautious  
Water Increase 100%

Signature of Owner James D Bishop

Date 12/27/63

Indicate point of appropriation and place of use, if possible.



Sec. 10 T. 20 R. 9

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

STATE OF MISSISSIPPI  
COUNTY OF CHOCTAW.  
Filed DEC 27 1963 19\_\_\_\_  
at 3:30 George H. H. H. H.  
County Clerk  
By \_\_\_\_\_ Deput  
No. 2 50 Paid

File No. ....

T. 20 N. R. 9 E.

DUPLICATE

County Chouteau

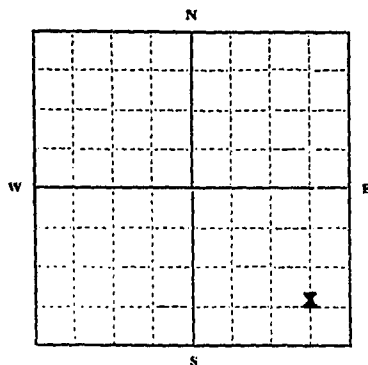
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

# Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 23 1963  
STATE ENGINEER

1. USDA - Forest Service, of Stafford, Montana  
(Name of Appropriator) (Address) (Town)  
County of Judith Basin State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SE  $\frac{1}{4}$  SE Sec. 20 T. 20N. R. 9E

Indicate point of appropriation  
and place of use, if possible. Each  
small square represents 10 acres.

2. The beneficial use on which the claim is based.....  
domestic - Stafford well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1920 - used continually since then.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
N. A.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal by well, hand pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920
8. The depth of water table 30 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater drilled well, 6 inch casing, 40 feet deep.
10. The estimated amount of groundwater withdrawn each year 1000 gallons
11. The log of formations encountered in the drilling of each well if available.....  
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....  
Lewis and Clark water right #4148

USDA - FOREST SERVICE

Signature of Owner.

*Fredrick R. Correll*  
District Forest Ranger

Date December 13, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

11192

346488

COUSIN OF  
Filed DEC 19 1963 12:30 P.  
at 12:30 P.  
By George W. Harvey Clerk  
By James M. Harris Deputy  
none Paid

File No. ....

T 20 N. R. 9 E.

DUPLICATE

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

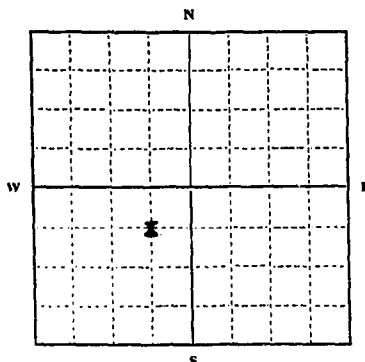
## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED  
DEC 23 1963

STATE ENGINEER

1. Forest Service - USDA, of Stanford  
(Name of Appropriator) (Address) (Town)  
County of Judith Basin State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 SW Sec. 20 T20N R. 9E

Indicate point of appropriation  
and place of use, if possible. Each  
small square represents 10 acres.

2. The beneficial use on which the claim is based.  
domestic - Highwood Guard Station well.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1907 and continuous since then.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
H. A.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.  
by hand pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1907
8. The depth of water table. 40 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 50 foot well with 6 inch casing.
10. The estimated amount of groundwater withdrawn each year. 800 gallons.
11. The log of formations encountered in the drilling of each well if available.  
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.  
Lewis & Clark water right #4169

USDA - FOREST SERVICE

Signature of Owner

Fredric R. Cornell  
District Forest Ranger  
Date December 13, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

11193



346482

STATE OF MONTANA,  
COUNTY OF CHOTEAU, ss.

Filed 1903 19\_\_

at 12:30 o'clock P. M.

George W. Harris  
County Clerk

By Anna M. Harris Deputy

1 none Paid

GW 3

33

File No.....

T. 20N.....R. 9E.....

DUPLICATE

County.....Chouteau.....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED

JUN 29 1973

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater ..... 1944

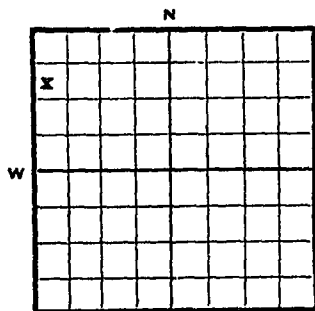
Owner.....Fay Lucas.....

Address.....Highwood, Montana 59450.....

Contractor (if any) .....none.....

Address of Contractor .....none.....

Date Started.....1944..... Date Completed.....1944.....



NW 1/4 NW Sec. 33 T. 20N R. 9E

Indicate point of appropriation and place of use, if possible.

377642  
June 29, 1973  
4:00 p.m.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Flowing spring

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

5 gals per minute

continuous

Signature of Owner Fay Lucas

Date June 29, 1973

This form to be prepared by contractor (if any), otherwise by the owner.

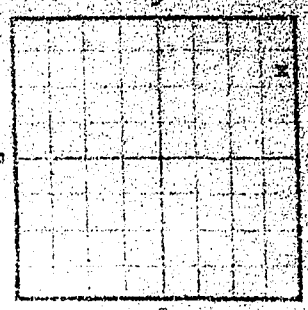
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

5-6234

State of Montana  
County of Cascade  
Plat No. 100  
Section 10  
T. 10 N. R. 10 E.  
The following is a true and correct copy of the original record of the proceedings of the Board of Commissioners of the County of Cascade, Montana, held on the 10th day of June, 1973, at the County Courthouse, Cascade, Montana, in the case of the Board of Commissioners of the County of Cascade, Montana, vs. the Board of Commissioners of the County of Cascade, Montana, et al.



and place of record is hereby certified.

# 371642

STATE OF MONTANA )  
COUNTY OF CASCADE )  
Filed JUN 29 1973  
4:00 P.M.  
By George W. Dwyer County Clerk  
By \_\_\_\_\_ Deputy  
Fee \$ \_\_\_\_\_ Paid

## Page 1 of 1

County Chautau Twp. 207 Rge. 10 E

[illegible]

GW 3

File No. ....

DUPLICATE

T. 20 R. 10

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
OCT 25 1963

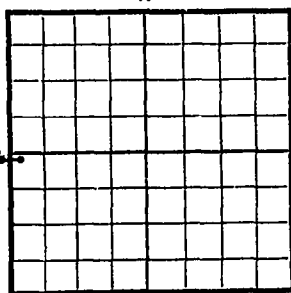
STATE ENGINEER

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 17, 1932Owner Joel R. Overholser, et alAddress Fort Benton, Montana.Contractor (if any) noneAddress of Contractor noneDate Started May, 1931 Date Completed May, 1931

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring on the surface of the ground.



NW 1/4 SW Sec. 7 T. 20 R. 10

Indicate point of appropriation and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

About 5 gallons per minute, measured from pipeUsed about 6 months of the year

Signature of Owner

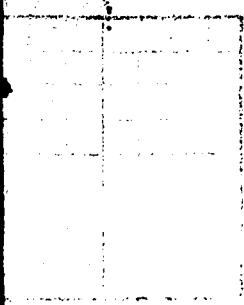
*Joel R. Overholser, Jr.*  
Date October 24, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.



345675

STATE OF MONTANA.  
COUNTY OF CHOUTEAU. {ms.

Filed **OCT 24 1963** 1P

at 3:30 o'clock P. M.

George W. Harvey  
County Clerk

By John M. Harris Deputy

Fee \$ 2.00 Paid

File No. NOV 23 1965

T. 20N R. 10E

DUPLICATE  
 Billie \_\_\_\_\_ McDermott \_\_\_\_\_  
 Co. \_\_\_\_\_ McNulty \_\_\_\_\_  
 Darlington \_\_\_\_\_ Morion \_\_\_\_\_  
 Dickert \_\_\_\_\_ Sullivan \_\_\_\_\_

County Chouteau

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Since 1894, used by Kingsbury & Lepley, Inc.

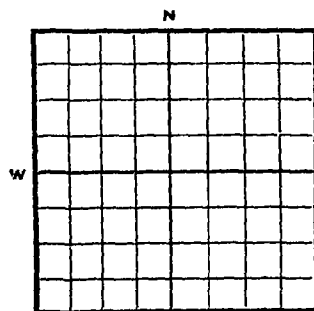
Owner M.J. Murphy and Jean C. Murphy, his wife.

Address Geraldine, Montana

Contractor (if any) None

Address of Contractor

Date Started 1894 Date Completed 1894



21 & 22  
 Sec. T20N R10E

Indicate point of appropriation and place of use, if possible.

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Mandeville Creek flows from springs rising in Sections 21 and 22, said water surfacing by natural process.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use 1500 miners inches used for irrigation April 1 through October 1 of each and every year.

Signature of Owner

Date November 20, 1965

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

\_\_\_\_\_



## GROUNDWATER INDEX

Page 1 of 1

County Chouteau Twp. 20N Rge. 11E

[illegible]

GW 3

File No.....

T. 20N R. 11E

DUPLICATE

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963  
STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

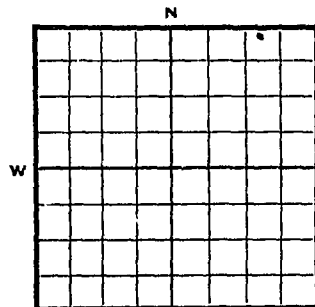
Owner Dean Strand

Address Square Butte, Montana

Contractor (if any) Fred Youderian

Address of Contractor Lewistown, Montana

Date Started Aug 13, 1958 Date Completed Aug 14, 1958



Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to

water when applicable. one spring dug out with a drag

line and piped to a tank

five foot deep

Lot 1  
1/4 Sec. 1 T. 20N R. 11E

Indicate point of appropriation  
and place of use, if possible.

used in section 1

Quantity of water developed and used with explanation of meth-  
od used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use

4 gallon per minute increase 3 gallon per

minute timed with a 5 gallon bucket

Signature of Owner Dean Strand

Date December 14, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in  
which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the  
School of Mines and Quadruplicate for the Appropriator.

9982

[illegible]

ALBERT J. BROWN

...to bring medical  
...to the ...

1. *Chlorophyll a* (Chl *a*)

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

1. The first step is to identify the problem.
 2. The second step is to analyze the problem.
 3. The third step is to develop a solution.
 4. The fourth step is to implement the solution.
 5. The fifth step is to evaluate the solution.

the *Journal of the American Medical Association* (JAMA) and the *New England Journal of Medicine* (NEJM).

1997: 1998) and others (e.g. 1998: 1999) have shown that the

# 346379  
STATE OF MONTANA

COUNTY OF CHOUTEAU. }  
10. 4-1-16

Filed December 12  
at 11:30 o'clock

George W. Ha

... Court

200 Paid

\_\_\_\_\_

File No. ....

T 20 R 11

DUPLICATE

County Choteau

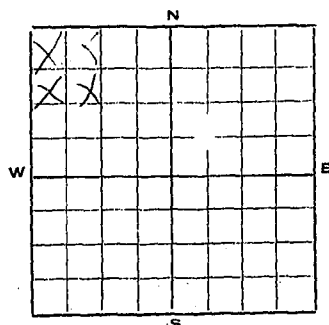
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 7 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS  
(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kalafat Et. Al of 1701 Colorado Ave., Black Eagle  
(Name of Appropriator) (Address) (Town)

County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Lot 4  
NW 1/4 N W Sec. 1 T. 20 R. 11

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based  
Domestic and stock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1919, continuous use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Sufficient amount of water for domestic and stock use.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Natural pressure, gravity flow

Lot 4, N. 1 N.W. Sec. 1 T. 20 R. 11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Completed 1919

8. The depth of water table Hillside 15 feet deep

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Hillside excavated 15 feet deep

10. The estimated amount of groundwater withdrawn each year Sufficient for domestic and stock use.

11. The log of formations encountered in the drilling of each well if available  
Brown Shale on Clay Bed

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
UNKNOWN

Signature of Owner George M. Kalafat

Date 12/23/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

26308

(Town)

(Address)

(Name of Applicant)

County of

have appropriated groundwater according to the provisions of the Montana Groundwater Act of 1962 as follows:

1. The land in which the water is located

is located in the

2. The land is situated in the

3. The land is situated in the

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43. The land is situated in the

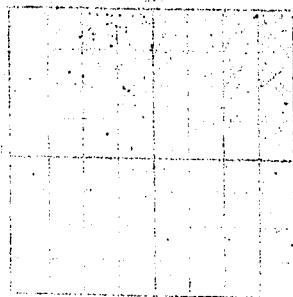
44. The land is situated in the

45. The land is situated in the

46. The land is situated in the

47. The land is situated in the

48. The land is situated in the



has indicated the point of appropriation and the place of use, if possible, which shall have priority over all other appropriations.

STATE OF MONTANA  
COUNTY OF CHOUTEAU

Filed DEC 31 1963

at 10:00 o'clock

By County Clerk

By

Notary

File No. ....

DUPLICATE

T. 20 R. 11

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 7 1964

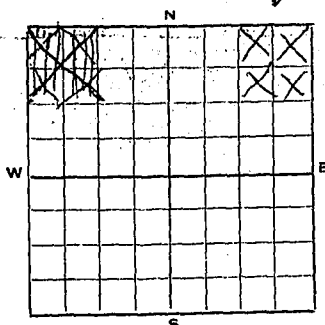
STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kalafat Et. Al of 1701 Colorado Ave, Black Eagle  
(Name of Appropriator) (Address) (Town)

County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



lot 1  
N.E. 1/4 NE Sec 2 T. 20 R. 11

Indicate point of appropriation and  
place of use, if possible. Each small  
square represents 10 acres.

2. The beneficial use on which the claim is based Domestic and Stock use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1919 continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Sufficient amount of water for domestic and stock use
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Natural pressure, gravity flow  
Lot 1 N.E. 1/4 NE Sec 2 T. 20 R. 11
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Completed 1919
8. The depth of water table 25 to 35 feet in hillside
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Hillside excavated about 30 feet long about 35 feet down from the top of hill
10. The estimated amount of groundwater withdrawn each year Sufficient for domestic and stock use.
11. The log of formations encountered in the drilling of each well if available Brown Shale on a Gray Clay Bed
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Unknown

Signature of Owner: George M. Kalafat

Date 12/23/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

26309

100

(continued)

(105110994A to 105110999V)

County of \_\_\_\_\_ State of \_\_\_\_\_  
 do hereby certify that the foregoing is a true and correct copy of the original as filed in my office on January 1, 1908.

3. The identification of the person to whom the information is being furnished is being made on the basis of the information furnished by the person to whom the information is being furnished.

[illegible]

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1. **Содержание:** 1. Общие сведения о предприятии. 2. Описание продукции. 3. Анализ рынка. 4. Финансовый анализ. 5. Оценка рисков. 6. Заключение.

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RESEARCHER'S NAME: Dr. J. K. SINGH PAGE NO. 1

RESEARCHER'S ADDRESS: Dr. J. K. SINGH, P.O. BOX 100, DELHI-110002

RESEARCHER'S PHONE NO.: 011-26101010

RESEARCHER'S E-MAIL ID: dr.jk.singh@gmail.com

antibiotic resistance, and antibiotic resistance is a major public health concern.

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[illegible][illegible]

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Indicate point of application and  
place of use, if possible. Each cell  
separate requirements in notes.

# 346997  
STATE OF MONTANA  
COUNTY OF CROFTON  
Filed DEC 9 1900 19  
at Helena o'clock PM  
George W. [Signature]  
County Clerk  
By \_\_\_\_\_  
For 200 Paid \_\_\_\_\_

File No.....

DUPLICATE

T. 20 R. 11

County...Choteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

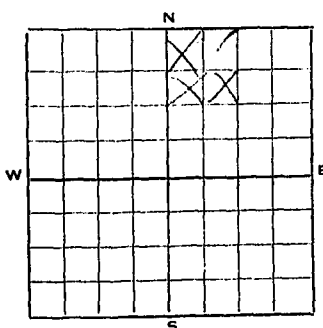
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JAN 7 1964

DECLARATION OF VESTED GROUNDWATER RIGHTS

(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kalafat Et Al, of 1701 Colorado Ave., Black Eagle  
(Name of Appropriator) (Address) (Town)

County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Lot 2

N.E. 1/4 Sec. 2 T20 R 11

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Domestic and stock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1919 continuous use

4. The amount of groundwater claimed (in miner's inches or gallons per minute) Sufficient amount for stock and domestic

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof None

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Natural pressure Gravity flow  
Lot 2 N.E. 1/4 Sec 2 T20 R 11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Completed 1919

8. The depth of water table Hillside natural flow 25 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater hillside excavated 25 feet

10. The estimated amount of groundwater withdrawn each year Sufficient for domestic and stock use

11. The log of formations encountered in the drilling of each well if available  
Gravel on Gray Clay

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Unknown

Signature of Owner George M. Kalafat

Date 12/23/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

26310



State of Montana  
 County of Chouteau  
 I, the undersigned, Clerk of the County of Chouteau, Montana, do hereby certify that the following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

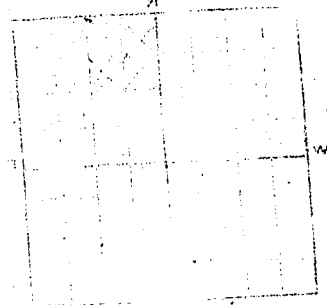
The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.

The following is a true and correct copy of the original as filed in my office on January 1, 1963.



Each section of the map is numbered 1 through 36. The map is divided into four quadrants by a horizontal and vertical line. The numbers are arranged in a grid pattern across the map.

The map is divided into four quadrants by a horizontal and vertical line. The numbers are arranged in a grid pattern across the map.

The map is divided into four quadrants by a horizontal and vertical line. The numbers are arranged in a grid pattern across the map.

Filed at 10:40 o'clock  
 on January 31, 1963  
 by George W. [Signature]  
 County Clerk

Page 2 of 2

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Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No. ....

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DUPLICATE

County RECEIVED

JAN 7 1964

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

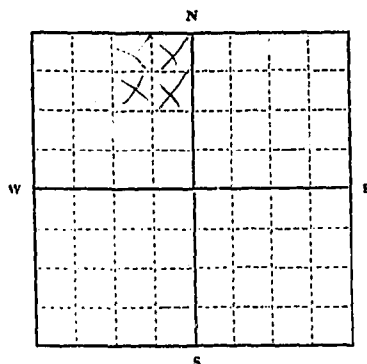
STATE ENGINEER

## Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kalafat, Et Al of 1701 Colorado Ave. Black Eagle  
(Name of Appropriator) (Address)

County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Lot 3  
NW 1/4 Sec 2 T.20 R.11

Indicate point of appropriation  
and place of use, if possible. Each  
small square represents 10 acres.

2. The beneficial use on which the claim is based  
Domestic and stock use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1919 periodically since
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 1 gallon per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal  
Natural Pressure Gravity Flow  
Lot 3 N.W. 1/4 T.20 R.11
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. 1919
8. The depth of water table. 15 feet in hillside
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Hillside excavated 15 feet
10. The estimated amount of groundwater withdrawn and sufficient amount for domestic and
11. The log of formations encountered in the drilling of each well if available.
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner George M. KalafatDate Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

26311

# 346999  
STATE OF MONTANA, T<sup>th</sup>  
COUNTY OF CHOTEAU, T<sup>th</sup>  
Filed - 20 31 1903  
19  
to 10:00 Clerk  
*George H. [Signature]*  
County Treas.  
to 200 Deput  
Paid

File No. ....

T. 20 R. 11

DUPLICATE

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

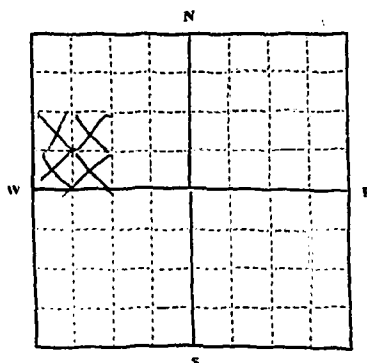
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JAN 7 1964

Declaration of Vested Groundwater Rights ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. George M. Kalafat Et. Al. of 1701 Colorado Ave. Black Eagle  
(Name of Appropriator) (Address) (Town)

County of Cascade State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Lot 5

N.W. 1/4 Sec. 2 T. 20 R. 11

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based  
Domestic and stock use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1919 periodically since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1 gallon per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof  
none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal

Natural pressure, Gravity flow  
Lot 5 N.W. 1/4 S.W. Sec 2 T 20 R 11

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1919

8. The depth of water table Hillside about 35 feet from top

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Open Pool

10. The estimated amount of groundwater withdrawn each year Sufficient amount for domestic and stock use

11. The log of formations encountered in the drilling of each well if available  
Unknown

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record  
Unknown

Signature of Owner George M. Kalafat

Date Dec 30 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

26312

# 347000  
STATE OF MONTANA,  
COUNTY OF CENTRAL.  
Filed DEC 31 1963 19  
at 10:00 o'clock 9 M  
*George W. [Signature]*  
County Clerk  
Deputy  
200 Paid



# MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

FORREST H. ANDERSON, GOVERNOR  
GARY WICKS, DIRECTOR

MEMBERS OF THE BOARD  
JOSEPH B. REBER, CHAIRMAN  
JOSEPH W. SABOL  
DEAN HANSON  
RILEY OSTBY  
HERBERT HUENNEKENS

449-2811  
325 FULLER AVENUE  
HELENA, MONTANA 59601

P. O. Box 217

July 5, 1972

Water Conservation Board  
Water Resources Engineer  
Sam W. Mitchell Building  
Helena, Montana 59601

Dear Sir:

Enclosed you will find a copy of a release agreement for the utilization of a fresh water well.

Operator	Rapp Oil Corporation
Lease Name	L. Strand
Well No.	11-23, Sec. 23, Twp. 20N, Rge. 11E Chouteau County

Yours very truly,

*N. J. Beaudry*  
Norman J. Beaudry  
Administrator

NJB/ml  
Encl.

cc: Mr. W. Bond  
Bureau of Mines and Geology  
Butte, Montana 59701

RECEIVED

JUL 6 1972

MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

APPROVED BY: *Residing at Helena, Montana*  
*For Commission Expiration 21-1974*  
Oil and Gas Conservation Commission

*Norman J. Beaudry*  
Petroleum Engineer, Geologist, or Executive Secretary

Dated: *July 3*, 19 *72*

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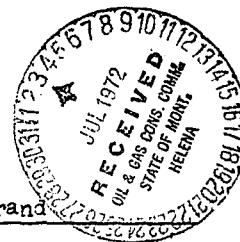
JUL 6 1972

MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

59830

OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF MONTANA

RELEASE AGREEMENT



KNOW ALL MEN BY THESE PRESENTS, that I, Leroy Strand  
\_\_\_\_\_ of the County of Chouteau in  
the State of Montana, am the owner of the hereinafter described land upon which  
a well for oil or gas was drilled, to-wit:

Operator Rapp Oil Corporation  
Lease Name L. Strand  
Well No. 11-23 Sec. 23, Twp. 20N, Rge. 11E  
The well is located 1806 feet  $\frac{S}{N}$  of the South  
line and 454 feet  $\frac{E}{W}$  of the East line.

That, in accordance with Regulation 233.6, Order No. 1-1, November 30,  
1953, I do hereby notify the Oil and Gas Conservation Commission of the State  
of Montana of my desire to utilize said well as a fresh water well; and, that  
if such utilization is approved, I do hereby release and discharge the operator  
hereinabove named from any further work or responsibility in relation to the  
plugging of said well.

Water Use: Domestic \_\_\_\_\_ Municipal \_\_\_\_\_ Stock X Other \_\_\_\_\_  
Industrial \_\_\_\_\_ Drainage \_\_\_\_\_ Irrigation \_\_\_\_\_

Producing Depth 2325 Producing Formation Swift

Yield of well \_\_\_\_\_ Annual Withdrawal \_\_\_\_\_

WITNESS my hand and seal this 15th day of June, 1972.

Leroy Strand (L.S.)  
Address Landowner Geyser, Montana

IN THE PRESENCE OF:

Norma M. Strand Address Geyser, Mont.  
Lillian Strand Address \_\_\_\_\_  
NOTARY PUBLIC

APPROVED BY: \_\_\_\_\_  
Residing at \_\_\_\_\_  
My Commission Expires 26-1977  
Oil and Gas Conservation Commission

Norman J. Beaudry  
Petroleum Engineer, Geologist, or Executive Secretary

Dated: July 3, 19 72

RECEIVED  
JUL 1972  
MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

59830

Page 1 of 1

County Chouteau Twp. 20N Rge. 12E

[illegible]



GW 3

File No. ....

DUPLICATE

T. 20N R. 12E

County ~~Chouteau~~ **RECEIVED**

DEC 18 1963

STATE ENGINEER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

Owner Dean Strand

Address Square Butte, Mont.

Contractor (if any) Fred Youderian

Address of Contractor Lewistown, Montana

Date Started Aug 11, 1962 Date Completed Aug 12, 1962

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with a drag

line and piped to a tank

10 foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

six gallon per minute increase of 4 gallon

per minute timed with a 5 gallon bucket

Signature of Owner Dean Strand

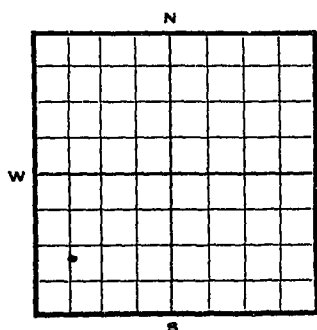
Date December 14, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.



SW 1/4 Sec. 4 T20N R12E

Indicate point of appropriation and place of use, if possible.

used in  
section 4

[illegible][illegible]

.....

draw to nothing, this has been frequently noted in patients, especially if one H. trochanter does not rise to the level of the other.

..... you by referring to original documents attached hereto.

1. The first step in the process of identifying a problem is to determine the nature of the problem. This involves gathering information about the problem and its context. The next step is to identify the causes of the problem. This involves analyzing the information gathered in the first step and identifying the factors that are contributing to the problem. The third step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. The final step is to implement the plan and monitor the results. This involves putting the plan into action and tracking the progress of the solution. If the problem is not solved, the process may need to be repeated.

Our treatment differs from other studies in several important ways. First, we focus on the effects of the 1990s on the 1980s, rather than the effects of the 1980s on the 1990s. This is important because the 1990s were a period of rapid economic growth and technological change, which may have led to a decline in the importance of the 1980s. Second, we use a large sample of firms, rather than a small sample of firms. This is important because a small sample of firms may not be representative of the population of firms. Third, we use a variety of measures of firm performance, rather than a single measure of firm performance. This is important because a single measure of firm performance may not capture all aspects of firm performance. Finally, we use a variety of control variables, rather than a single control variable. This is important because a single control variable may not capture all factors that affect firm performance.

It was also the successful release of a man, who had been reported killed in the same attack, that was the cause of the confusion.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler (1987). The total chlorophyll content was determined by the method of Arar and Cook (1981). The carotenoid content was determined by the method of Lichtenthaler and Weber (1987).

Figure 11. The effect of the initial concentration of the monomer on the polymerization of *l*-lysine.

[illegible]

and all associated "downside" staff will be assigned to the

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin lines. There are also thicker lines forming a larger grid, dividing the page into four quadrants. The paper is otherwise empty of any text or markings.

ALL INFORMATION CONTAINED  
HEREIN IS UNCLASSIFIED  
DATE 10-10-2001 BY 60322  
UCBAW

4346372  
STATE OF MONTANA  
COUNTY OF CHOUTEAU.  
Filed December 16 1903  
at 11:30 o'clock A.M.  
George W. Hawley  
County Clerk  
By Emma M. Hawley Deputy.  
-w 200 Paid

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

DEC 11 1970

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

NOTICE OF COMPLETION OF GROUNDWATER  
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner Dean Strand

Address 1617 S. 3rd Ave. So.

Great Falls, Montana 59401

Date well started June 15, 1968

Completed July 2, 1968

For Administrator's Use	
File	<u>263304</u> <u>December 9, 1970</u> <u>2:00 P.M.</u>
GW 1	

Type of well Drilled (Dug, driven, bored or drilled)

Equipment used Rotary (Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

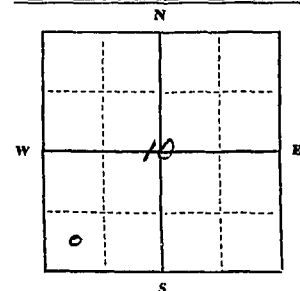
Industrial ☐ Drainage ☐ Other ☐ \* Golf ☐ Lawn ☐

\*Describe

USE: If used for irrigation, industrial, drainage or other. Explain state number of acres and location or other data (i.e. lot, B and Addition).

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>7-5/8"</u>	<u>4 1/2" x 9 1/2"</u>	<u>Surface</u>	<u>1072</u>	<u>Hyper Jet</u>		
		<u>0</u>		<u>37 Feet</u>	<u>934</u>	<u>996</u>



Static water level Flowing ft.\*  
Pumping water level 100 ft.\*  
at 207 gallons per minute,  
measured 1.00 minutes after pumping  
be  
\*Measured from ground level 996  
Well developed by washing  
for 24 hours.  
Power Flowing Pump None HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff) Casing  
cemented with 75 sacks.  
Perforated after cementing  
by Schlumberger gun perforator

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Not Applicable

Driller's Address Not Applicable Drilled as Oil well

Intended as water well Not Applicable LICENSE NO. Not Applicable

Chamberlain Geo & Eng

Top of Ground (Elev. above sea level) <u>2000</u>	
From (Feet)	To (Feet)
	<u>SEE ATTACHED</u>
<u>0</u>	<u>100</u> <u>Glacial silt and gravel</u>
<u>100</u>	<u>200</u> <u>Dark gray to black shale</u>
<u>200</u>	<u>400</u> <u>Gray clay sand</u>
<u>400</u>	<u>600</u> <u>Black, hard silty lime</u>
<u>600</u>	<u>800</u> <u>Gray limestone shale</u>
<u>800</u>	<u>900</u> <u>Brown shale and sandstone</u>
<u>900</u>	<u>1000</u> <u>Light gray shale with iron and soil, soft, laminated</u>
<u>1000</u>	<u>1100</u> <u>Light gray, soft shale with iron and soil</u>
<u>1100</u>	<u>1200</u> <u>Soft gray sandstone</u>
<u>1200</u>	<u>1300</u> <u>Flows 8 gallons per minute</u>
<u>1300</u>	<u>1400</u> <u>Soft gray shale</u>
<u>1400</u>	<u>1500</u> <u>Soft sand, water at 1000</u>
<u>1500</u>	<u>1600</u> <u>Soft gray shale and silt.</u>
<u>1600</u>	<u>1700</u> <u>Hard clay siltstone</u>
<u>1700</u>	<u>1800</u> <u>Hard, fine sandstone, iron water.</u>
<u>1800</u>	<u>1900</u> <u>Gray and green shale</u>
<u>1900</u>	<u>2000</u> <u>Red, brown and gray shale</u>
<u>2000</u>	<u>2100</u> <u>Hard gray sandstone, 1 1/2" and variegated shale.</u>
<u>2100</u>	<u>2200</u> <u>Hard sandstone with streaks brown limestone</u>
<u>2200</u>	<u>2300</u> <u>Soft, dark, variegated clay shale.</u>
<u>2300</u>	<u>2400</u> <u>Sandstone, fine grained with soft sandstone. Flow on slightly calcareous water at 100 gallons per minute.</u>
<u>2400</u>	<u>2500</u> <u>Hard, fine limestone, white porous limestone</u>

Show exact depth of bottom

Plugged back on 1072 477880

363304

STATE OF MONTANA, ss.  
COUNTY OF CHOUTEAU,

Filed December 9 1970

at 2:00 o'clock P. M.

Clarence W. Hays  
County Clerk

By \_\_\_\_\_ Deputy

Fee \$ 1.00 Paid

GW 3

File No. ....

DUPLICATE

T. 20N R. 12E

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963

STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 ~~Montana~~ Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

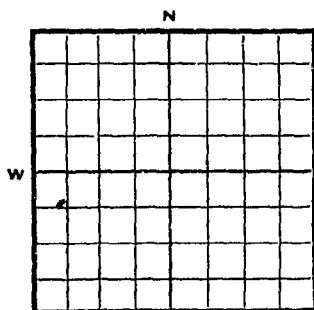
Owner Dean Strand

Address Square Butte, Montana

Contractor (if any) Fred Youderian

Address of Contractor Lewistown, Montana

Date Started Aug 13, 1961 Date Completed Aug 14, 1961



NW 1/4 Sec. 10 T. 20N R. 12E

Indicate point of appropriation and place of use, if possible.

used in section 10

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with a

drag line and piped to a tank

five foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

4 gallon per minute increase of 3 gallon per

minute timed with a 5 gallon bucket

Signature of Owner

*Dean Strand*

Date December 10, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9478



GW 3

File No. ....

DUPLICATE

T. 20N R. 12E

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963

STATE ENGINEER

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

Owner Dean Strand

Address Square Butte, Montana

Contractor (if any) Fred Youderian

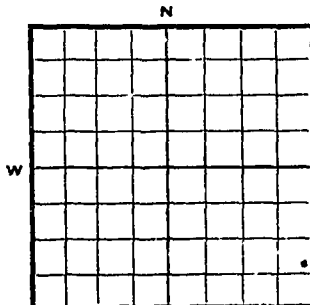
Address of Contractor Lewistown, Montana

Date Started Aug 12, 1958 Date Completed Aug 13, 1958

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with a drag.

line and piped to a tank.

eight foot deep



Lot 6  
1/4 Sec. 15 T. 20N R. 12E

Indicate point of appropriation and place of use, if possible.

used in section 15

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

Three gallon per minute increase of 2 gallon per minute timed with a 5 gallon bucket

Signature of Owner Dean Strand

Date December 14, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

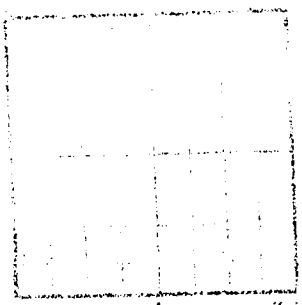
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

9980

The undersigned do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears in the records of the County of Chouteau, State of Montana.



Given under my hand and the seal of the County of Chouteau, State of Montana, this 16th day of December, 1967.

Notary Public for the State of Montana

In testimony whereof, I have hereunto set my hand and the seal of the County of Chouteau, State of Montana, at the City of Helena, Montana, this 16th day of December, 1967.

#346371  
 STATE OF MONTANA  
 COUNTY OF CHOUTEAU  
 16 DEC 16 1967  
 W. Henry  
 County Clerk  
 Deputy  
 Paid



GW 3

File No. ....

T. 20N R. 12E

DUPLICATE

County. Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963

STATE ENGINEER  
**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963Owner Dean StrandAddress Square Butte, MontanaContractor (if any) Fred YouderianAddress of Contractor Lewistown, MontanaDate Started Aug 13, 1960 Date Completed Aug 14, 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with drag

line and piped to tank

five foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

12 gallon per minute increase 5 gallon per

minute timed with a 5 gallon bucket

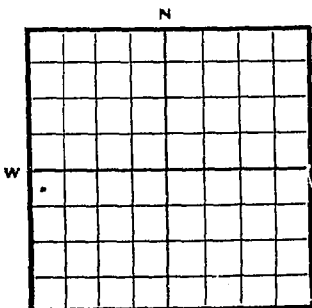
Signature of Owner Dean StrandDate December 10, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



NW 1/4 Sec. 17 T. 20N R. 12E

Indicate point of appropriation and place of use, if possible.

used in section 17

9969

2. \_\_\_\_\_ 1/2 1/2 1/2

GW 3

File No. ....

T. 20N R. 12E

DUPLICATE

County Chouteau

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963

STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

Owner Dean Strand

Address Square Butte, Montana

Contractor (if any) Fred Youderian

Address of Contractor Lewistown, Montana

Date Started Aug 12, 1960 Date Completed Aug 12, 1960

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. one spring dug out with drag line

and piped to tank

seven foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

20 gallon per min increase 10 gallon

timed with 5 gallon bucket

Signature of Owner Dean Strand

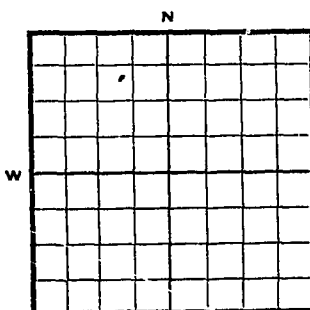
Date December 10, 1963

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Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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NE 1/4, NW 1/4 Sec. 17 T. 20 R. 12

Indicate point of appropriation and place of use, if possible.

used in section 17

9968



GW 3

File No. ....

T. 20N R. 12E

DUPLICATE

County ChouteauRECEIVED  
DEC 18 1963STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

## NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963Owner Dean StrandAddress Square Butte, MontanaContractor (if any) Fred YouderianAddress of Contractor Lewistown, MontanaDate Started Aug 10, 1960 Date Completed Aug 11, 1960Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. 2 springs dug out with dragline and piped to tanksfive foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

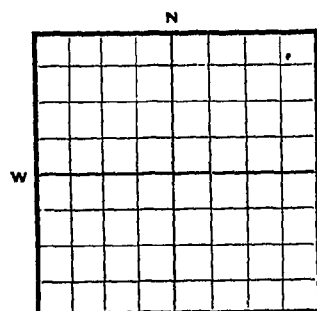
3 gallon per minute increase 2 gallon per minutetimed with a 5 gallon bucketSignature of Owner Dean StrandDate December 10, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

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Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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NE 1/4 NE Sec 17 T 20N R 12E

Indicate point of appropriation and place of use, if possible.

used in section 17

9967

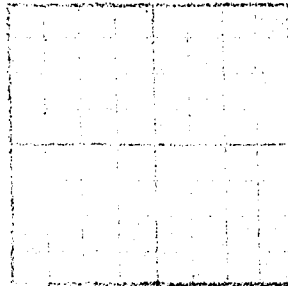
(1) The first of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(2) The second of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(3) The third of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(4) The fourth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(5) The fifth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.



(6) The sixth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(7) The seventh of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(8) The eighth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(9) The ninth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(10) The tenth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(11) The eleventh of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(12) The twelfth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(13) The thirteenth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(14) The fourteenth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

(15) The fifteenth of the above mentioned items is a copy of the report of the committee on the subject of the proposed amendment to the constitution of the State of Montana, which was adopted by the convention held at Helena, Montana, on the 15th day of September, 1901.

# 246358  
 STATE OF MONTANA  
 COUNTY OF CHouteau  
 Filed December 16 1903  
 at 11:30 o'clock a.m.  
 by George W. Hawley  
 County Clerk  
 by James M. Hansen  
 \$ 2.50 Paid

GW 3

File No. ....

T. 20N R. 12E

DUPLICATE

County Chouteau

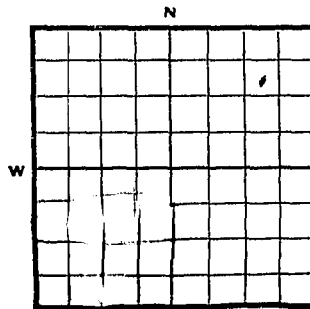
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963

STATE ENGINEER

**NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963Owner Dean StrandAddress Square 18, MontanaContractor (if any) Fred YouderianAddress of Contractor Lewistown, MontanaDate Started Aug 14, 1960 Date Completed Aug 15, 1963

NE 1/4 Sec. 18 T. 20N R. 12E

Indicate point of appropriation  
and place of use, if possible.

used in section 18

Describe means of obtaining groundwater without a well "as by  
sub-irrigation and other natural processes". Include depth to  
water when applicable. one spring dug out with drag

line and piped to tank

water 6' deep

Quantity of water developed and used with explanation of meth-  
od used to measure or estimate such amount. If use is intermit-  
tent estimate approximate lengths of periods of use

eight gallons per minute increase

7 gallon per minute timed with a 5 gallon

bucket

Signature of Owner Dean StrandDate December 10, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

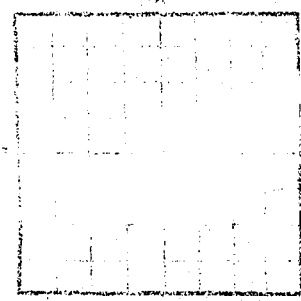
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in  
which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the  
School of Mines and Quadruplicate for the Appropriator.

9970

State of Montana  
County of Chouteau  
District Court  
In and for the County of Chouteau, State of Montana  
Do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said Court.



How a natural gas well is drilled and operated is a matter of common knowledge and is not a secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret.

THE STATE OF MONTANA  
COUNTY OF CHOUTEAU  
DISTRICT COURT  
In and for the County of Chouteau, State of Montana  
Do hereby certify that the within and foregoing is a true and correct copy of the original as the same appears from the records of said Court.

How a natural gas well is drilled and operated is a matter of common knowledge and is not a secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret. The fact that a well is drilled and operated in a certain manner is not a secret and is not a trade secret.

71,16361  
STATE OF MONTANA  
COUNTY OF CHOUTEAU  
Filed December 16 1963  
at 11:30 o'clock  
George W. Harvey  
James M. Harvey  
200



GW 3

File No. ....

T. 20N R. 12E

DUPLICATE

County .....

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 18 1963  
STATE ENGINEER

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

(Under Chapter 23, Montana Session Laws, 1961)

Date of Appropriation of Groundwater December 1963

Owner. Dean Strand

Address. Square Butte, Montana

Contractor (if any) Fred Youderian

Address of Contractor Lewistown, Montana

Date Started 10/6/59 Date Completed 10/8/59

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. 4 springs were dug out with

drag line to a depth of eight feet and piped to house and tanks

six foot deep

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

40 gallon per minute increase of 15 gallon

per minute by digging out and timed with a

5 gallon bucket

Signature of Owner Dean Strand

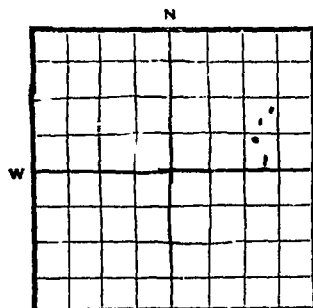
Date December 10, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.



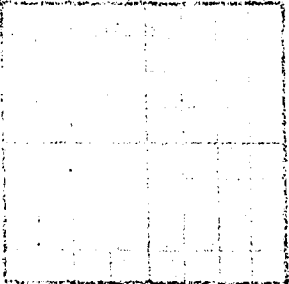
NE 1/4 Sec. 21 T. 20N R. 12E

Indicate point of appropriation and place of use, if possible.  
used in section 21  
section 15 and  
section 10

State of Montana  
County of Chouteau  
In the District Court of the  
County of Chouteau, State of Montana  
Plaintiff, vs. Defendant

That the Defendant is indebted to the Plaintiff in the sum of \$100.00 for the purchase of certain goods and services.

And that the Defendant has refused to pay the same, and that the Plaintiff is entitled to recover the same with interest.



Witness my hand and seal of the District Court of the County of Chouteau, State of Montana, this 16th day of December, 1926.

Attest: Clerk of the District Court of the County of Chouteau, State of Montana.

Subscribed and sworn to before me this 16th day of December, 1926.

STATE OF MONTANA  
COUNTY OF CHOUTEAU  
Filed December 16 1926  
at 11:30 AM  
George L. Harvey  
Judge of the Court  
James M. Hume  
20

GW 2

File No. ....

DUPLICATE

T. 20 N. R. 12 E

County MontanaSTATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERRECEIVED  
OCT 31 1963  
STATE ENGINEERNotice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Dean Strand Address Square ButteDriller O.C. Thatcher Address Stanford

Top of Ground

(Elev. above sea level.....)

Glacial Till Groundwater Date of Notice of Appropriation of Groundwater

235

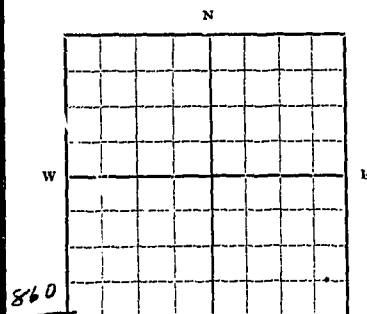
Date well started 4-13-63 Date Completed 5-12-63

Blue shale

Type of Well 1-1/2" drilled  
(dug, bored or  
drilled)Equipment Used Rotary  
(Churn, drill, rotary or  
other)Top of Mudstone shaleWater Use ☐ Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐  
☐ Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>3 7/8"</u>	<u>STO. 2" Galv. Pipe</u>	<u>0</u>	<u>996</u>	<u>4x4" 50 Hs</u>	<u>890</u>	<u>996</u>

Culverts  
ShaleTop of Mudstone

SE 1/4 Sec. 24 T. 20 N. R. 12 E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Water  
Sand  
965

996

Show exact depth of bottom.

Static Water Level for non-flowing Well.....feet.

Shut-in Pressure for Flowing Well 35"

Pumping Water Level.....feet at.....gal. per minute.

Discharge in gal. per min. of flowing well 4 GPM.How Tested Flow Length of Test 48 hr.

Remarks: (Gravel packing, cementing, packer, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) CasingPackers Set at 480+500Cemented with 5 Sacks

86

Driller's License Number

O.C. Thatcher

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

6715

345764

STATE OF MONTANA.  
COUNTY OF CHOUTEAU.

Filed SEP 30 1963 19\_\_

at 1:00 o'clock P.

George W. Harvey  
County Clerk

By Luna M. Harvey

Fee 2.00 Paid